BFS Algorithm Pseudocode

procedure BFS(G,s)

  for each vertex v ∈ V[G] do
    explored[v] ← false
    d[v] ← ∞
  end for

  explored[s] ← true
  d[s] ← 0
  Q := a queue data structure, initialized with s
  while Q ≠ φ do
    u ← remove vertex from the front of Q
    for each v adjacent to u do
      if not explored[v] then
        explored[v] ← true
        d[v] ← d[u] + 1
        insert v to the end of Q
      end if
    end for
  end while

end procedure